Summerbell

ROOF STRUCTURES

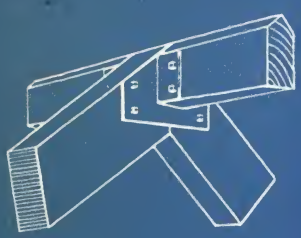
GLUED LAMINATED CONSTRUCTION
SUMMERBELL BOWSTRING TRUSSES
LAMELLA ROOFS
ALL TYPES OF TIMBER STRUCTURES

Summerbell ROOF STRUCTURES
825 EAST 29TH STREET • BOX 218, STATION "K" • LOS ANGELES 11

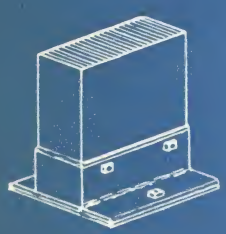
Wayfarer's Chapel, Palos Verdes Estates, California. Lloyd Wright, Architect.

GLUED LAMINATED CONSTRUCTION

SUMMERBELL Glued Laminated Construction combines the practical with the aesthetic, expressing in the natural beauty and longevity of wood the ultimate in design. Latest developments in manufacture make possible maximum economies in construction costs. The enduring quality of SUMMERBELL glued laminated construction is demonstrated in many different types of structures and in many different kinds of buildings. SUMMERBELL is more than a "trade name"; it is your assurance of uniform quality and permanence; your guarantee of integrity and lasting satisfaction; the symbol of established accepted value.



CENTER CONNECTION DETAIL



BASE CONNECTION DETAIL

Oneonta Congregational Church, South Pasadena, California. Marsh, Smith & Powell, Architects. Hillman & Nowell, Structural Engineers. Steed Brothers, General Contractors.

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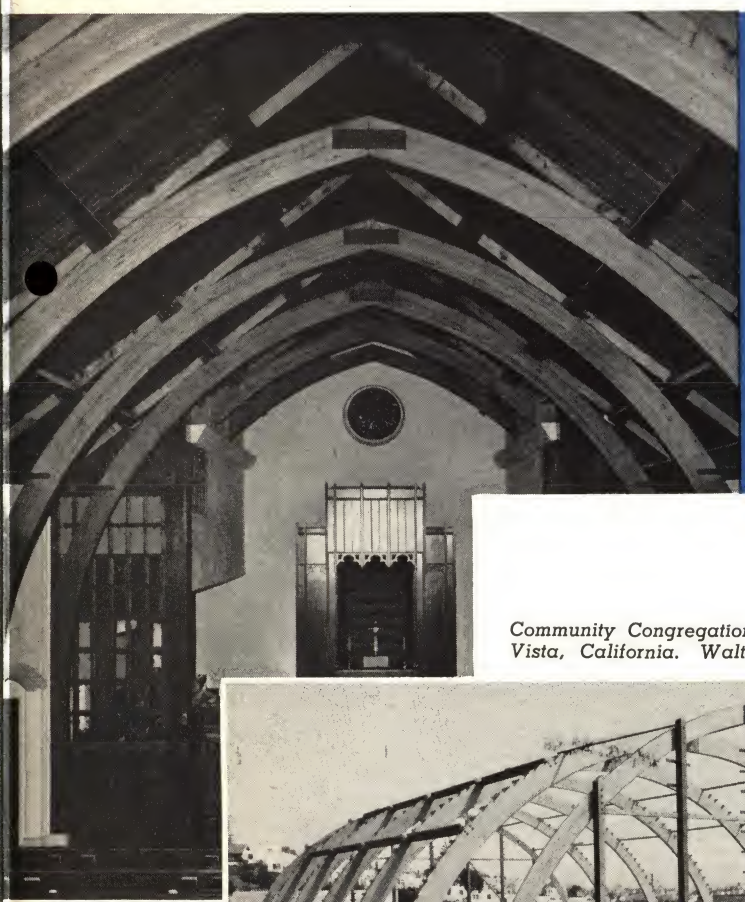
Activity Building, Peabody School, Santa Barbara, California. Soule & Murphy, Architects. Donald F. Shugart, Structural Engineer. H. R. Graham & Son, General Contractors.



DATA REQUIRED FOR ESTIMATES

For contract estimates, the following information is needed: 1. The name, location, dimensions of building and number of stories. 2. Number and spacing of glued laminated arches required. 3. Location and amount of any concentrated loads. 4. A sketch or plans and specifications indicating the shape of the arch desired, showing the height of the sidewall and height desired at the center connection. 5. Size, height and nature of side and firewall construction. 6. Finish desired on arch members. This information will aid us in designing the job to your requirements and submitting a guaranteed estimate price. Details will be furnished when requested.

Community Congregational Church, Chula Vista, California. Walter See, Architect.

One of several Recreation Buildings, San Francisco Playgrounds, San Francisco, California. Wm. G. Merchant, Architect. Ellison & King, Structural Engineers. Carrico & Gautier, General Contractors.

St. Albert the Great Church, Los Angeles. Chaix & Johnson, Architects. Brandow & Johnston, Structural Engineers. Steed Bros., General Contractors.

Gymnasium and Social Hall, Brothers of the Holy Cross, San Fernando Valley, California. Lawrence D. Viole, Architect. L. A. Le Fevre, General Contractor.

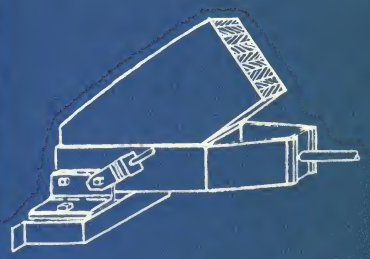
GLUED LAMINATED SEGMENTAL ARCHES

Recreation and Dining Hall, Los Angeles Turf Club, Arcadia, California. R. E. Coates, Architect. Paul E. Jeffers, Structural Engineer. E. M. Penn, General Contractor.

SUMMERBELL Glued Laminated Segmental Arches are single-width units composed of a number of relatively thin laminations of moisture-controlled lumber, bonded together with either water-resistant casein or waterproof resorcinol glue. All joints are scarfed, using the special WEJ-WELD scarf, thus assuring perfect alignment and proper lengthwise positioning of the individual pieces comprising a lamination.

The assembly of the various laminations is such as to distribute the scarfed joints throughout the length of the unit and to minimize the number of joints in any cross-section. SUMMERBELL's complete shop equipment, trained personnel and more than a quarter-century of experience assure the highest quality — a feature of all SUMMERBELL Products.

Packing House, Goleta Lemon Association, Goleta, California. W. W. Ache, Architect. Wm. T. Wheeler, Structural Engineer. C. M. & K. C. Urton, General Contractors.

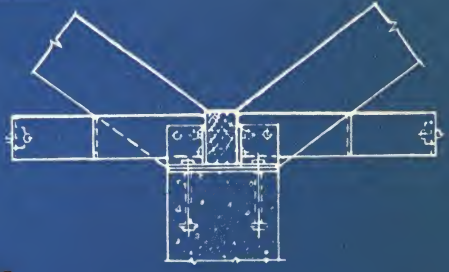


TIE ROD AND CLEVIS CONNECTION AT STILL

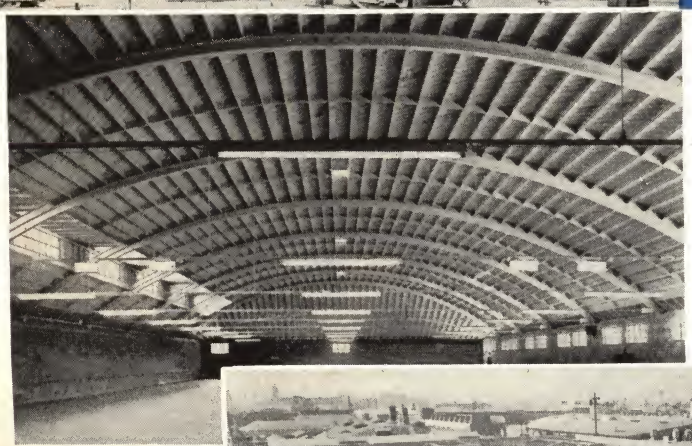
DATA REQUIRED FOR ESTIMATES

For contract estimates, the following information is needed: 1. The name, location, dimensions of building and number of stories. 2. Number and spacing of glued laminated arches required. 3. Location and amount of any concentrated loads. 4. Size, height and nature of side and firewall construction. 5. A sketch or plans and specifications will aid us in designing the job to your requirements and submitting a guaranteed estimate price. Details will be furnished when requested.

Warehouse, Brunswig Drug Company, Los Angeles. Albert C. Martin & Associates, Architects and Engineers. Wm. Simpson Construction Co., General Contractors.



DOUBLE ARCH CONNECTION TO INTERIOR WALL



Typical industrial or commercial building using Glued Laminated Segmental Arches for maximum usable interior space. B. H. Anderson, Architect.

Food Warehouse, Simon Levi Co., Los Angeles. Stiles Clements, Architect. Ted H. Jaehn, Structural Engineer. R. J. Daum Co., General Contractors.

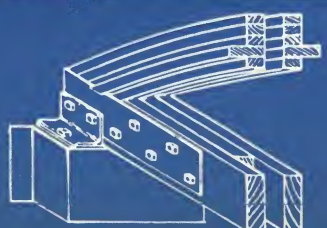
BOWSTRING TRUSSES

Freight House, Santa Fe R. R., Los Angeles. H. L. Gilman, Architect. Leo Callahan, Structural Engineer. Utah Construction Co., General Contractors.

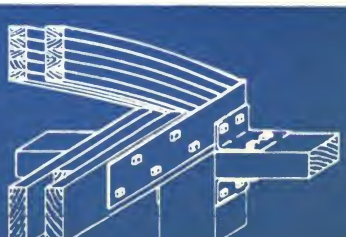
Beginning the erection of several hundred Summerbell Bowstring Trusses on the Certified Grocers Warehouse, Vernon, California. Harry T. Miller, Architect. Wm. P. Neil Co., General Contractors.

SUMMERBELL's accomplishments span 29 years of progress in Engineering in Wood. Through all these years, SUMMERBELL has maintained an unbroken reputation for quality, integrity, service and dependability. As a result, this organization is recognized as the pioneer and a National leader in the construction of Roof Structures. These achievements would not have been possible, in an era which has seen an unprecedented succession of prosperity, depression, war and inflation, without a deeply rooted *desire to serve* the Industry as a whole.

RAFTER FRAMING TO NON-LEDGER TYPE TRUSS



TRUSS CONNECTION TO CONCRETE WALL



TRUSS CONNECTION TO POST

DATA REQUIRED FOR ESTIMATES

For contract estimates, the following information is needed: 1. The name, location, dimensions of building and number of stories. 2. The number, span and spacing of trusses. 3. Type of ceiling load, if any. 4. Location and amount of any concentrated loads. 5. Plans and specifications, with the size, height and nature of all wall construction. With this information available, estimates can be furnished promptly. Details will be supplied when requested.

Transportation Warehouse, Vernand Trucking Co., Los Angeles. Herman Charles Light, Architect. R. R. Bradshaw, Structural Engineer. Pozzo Construction Co., General Contractors.

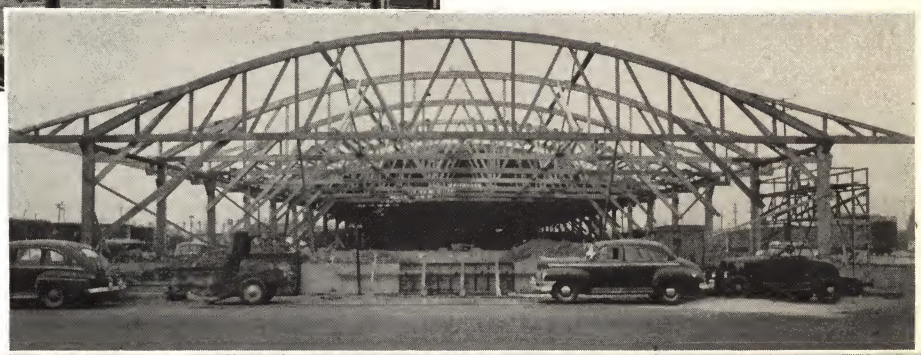
Radius Equals Span
Minimum Radius = 40' 0"

TRUSS DATA

Length of Arc = Span X 1.04719

Truss Span	30' 0"	35' 0"	40' 0"	45' 0"	50' 0"	55' 0"	60' 0"	65' 0"	70' 0"	75' 0"	80' 0"	85' 0"	90' 0"	95' 0"	100' 0"
Truss Height	3' 6"	4' 7½"	5' 11¼"	6' 7¼"	7' 3⅜"	8' 0⅜"	8' 8⅜"	9' 5½"	10' 1"	10' 9½"	11' 5⅝"	12' 2⅝"	12' 10⅝"	13' 6¾"	14' 2¾"
Width at Heel of Roof Load Truss	7⅝"	7⅝"	7⅝"	7⅝"	7⅝"	7⅝"	7⅝"	8⅜"	8⅜"	8⅜"	10⅜"	10⅜"	10⅜"	10⅜"	10⅜"
Width at Heel of Ceiling Load Truss	7⅝"	7⅝"	8⅜"	8⅜"	8⅜"	8⅜"	8⅜"	8⅜"	10⅜"	10⅜"	10⅜"	10⅜"	10⅜"	10⅜"	10⅜"

Machinery Sales Room and Warehouse, Sheppard Tractor Co., Los Angeles. L. W. Phelps, Structural Engineer. Ted R. Cooper Co., General Contractors.



Loading Dock, Pacific Freight Lines, Los Angeles. Lawrence J. Waller, Structural Engineer.

SUMMERBELL's complete service includes delivery and, if specified, erection.

OTHER TYPES OF TRUSSES

Crescent-type, glued laminated trusses for one of several large aircraft hangars for the U. S. E. D.

SUMMERBELL's Engineering Staff, composed of registered structural engineers, registered civil engineers and experienced draftsmen, is well qualified to assist the Architect and Engineer in roof construction problems. With complete facilities, broad resources and a trained, experienced personnel, SUMMERBELL is prepared to produce every kind and type of wood roof structure.

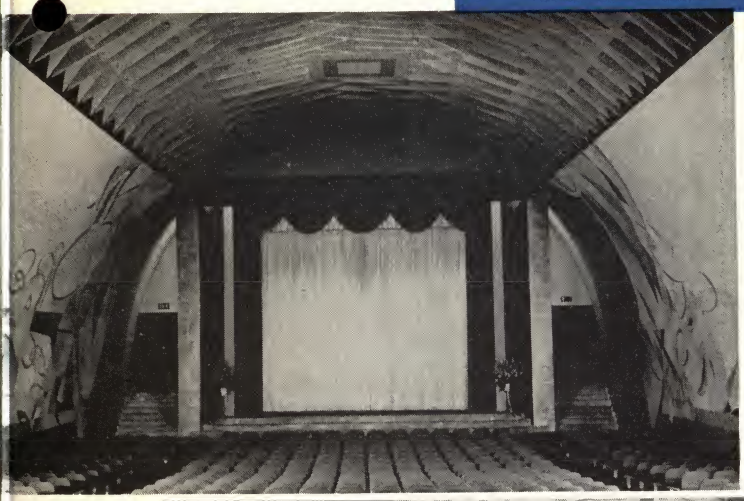
Factory Building, Standard Coil Products Co., Los Angeles. Austin Company, General Contractors.

Arches of sawn timbers are used in this Methodist Church, North Long Beach, California. Kenneth S. Wing, Architect. Wallace L. Wilson, General Contractor.

Lumber Shed for Hammond Lumber Co., Los Angeles. Pozzo Construction Co., General Contractors.

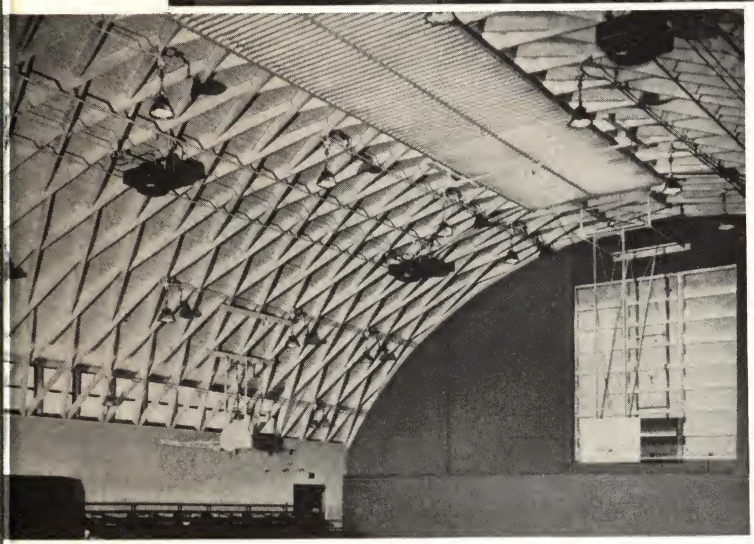
LAMELLA ROOF CONSTRUCTION

Theater, Puente, California. S. Charles Lee, Architect. Steve Chorak, General Contractor.



SUMMERBELL Lamella Roof Construction is the choice of many Architects because it combines strength, beauty and utility. Lamella design incorporates accepted engineering principles which provide for stresses produced by both vertical and lateral loads. Its utility is demonstrated by the unobstructed floor space and clear height it provides.

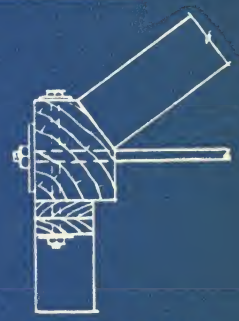
Packing Plant, Covina, California. Holmes & Narver, Structural Engineers. E. S. McKittrick Co., General Contractors. Lamella roof on glued laminated wood columns.



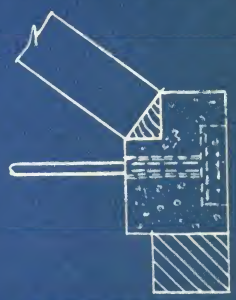
Gymnasium, Claremont, California, High School. Marsh, Smith & Powell, Architects. Hillman & Nowell, Structural Engineers. Key Construction Co., General Contractors.

DATA REQUIRED FOR ESTIMATES

For contract estimates, the following data is required: 1. Name, location, size of building and number of stories. 2. Height, thickness and construction material used in walls and firewalls. 3. Type of Lamella Roof desired. 4. Your plans and specifications will greatly assist our estimators in submitting a guaranteed estimate price. Details will be furnished when requested.



LAMELLA STILL CONNECTION TO FRAME WALL



LAMELLA STILL CONNECTION TO CONCRETE BEAM

LAMELLA ROOF CONTINUOUS

LAMELLA ROOF BROACHED ENDS

LAMELLA ROOF RAFTERED ENDS

Length of Arc = Span X 1.073
When Rise = 1/6

LAMELLA DATA

Standard Lamella Rise Equal to 1/6 of Span

Lamella Span	30' 0"	35' 0"	40' 0"	45' 0"	50' 0"	55' 0"	60' 0"	65' 0"	70' 0"	75' 0"	80' 0"	85' 0"	90' 0"	95' 0"	100' 0"
Lamella Rise	5' 0"	5' 10"	6' 8"	7' 6"	8' 4"	9' 2"	10' 0"	10' 10"	11' 8"	12' 6"	13' 4"	14' 2"	15' 0"	15' 10"	16' 8"

WEJ-WELD CONSTRUCTION

WEJ-WELD SCARF TO PLYWOOD HAUNCH

Church of the Nazarene, Colton, California. L. S. Gamble & Associates; E. Z. Springe, Structural Engineer.

Lutheran Church, Mesa, Arizona. Mel Ensign, Architect.

WEJ-WELD Construction, developed and perfected by SUMMERBELL, is another example of SUMMERBELL's many contributions to the Building Industry, made possible by ample resources, modern equipment and progressive management, with trained, capable personnel, backed by 29 years of experience. Through the use of the WEJ-WELD Scarf, shown above, posts and beams are joined in an integral arch frame unit which supports roof and walls.

Dining Hall using WEJ-WELD Arch Frames.

School Classroom using WEJ-WELD glued laminated structural arch frames in modules of 8 feet.

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DETAIL OF WEJ-WELD SCARFED JOINT

WEJ-WELD Arch Frames are suitable for all types of commercial and industrial buildings, classrooms, chapels, dining halls, barracks, homes and farm buildings. These structural units make possible the erection of complete buildings at lowest obtainable cost and they materially speed up construction time. They are manufactured in standard sizes, with spans of 20', 25', 30', 35' and 40'.

Planing Mill. Overhang is an integral part of the WEJ-WELD Arch Frames.

Light manufacturing plant. WEJ-WELD Arch Frames permit the use of any desired type of roof and wall covering.

St. Patrick's Catholic Church, Carlsbad, California. J. Daniels, Structural Engineer.

OTHER USES OF GLUED LAMINATED CONSTRUCTION

Glued laminated construction, as practiced by SUMMERBELL, is accepted by Building Authorities, Architects, Engineers and Contractors as superior to sawn timbers. Glued timbers do not season, check or split. They require little or no maintenance and are stronger, size for size. Glued timbers can easily be cambered, curved or tapered and, since there is practically no limit to size or shape, they may be supplied in many different designs for many and varied purposes.

Theater, Los Angeles. Lewis Eugene Wilson, Architect. F. N. Ropp, Structural Engineer. Baruch Corporation, General Contractors.

Living room wing of this hillside house is supported by a single-glued laminated arch which extends through the room and serves also as a balcony support. R. O. Spencer dwelling, Los Angeles. Paul Winter, Engineer. L. C. Guthrie, Jr., General Contractor.

Glued timbers of any required length and cross-section are widely used as beams or columns. They are stronger, size for size, than sawn timbers.

Left, below. Glued laminated beams provide an attractive driveway entrance. Frank Green, Architect.

Lincoln-Mercury Salesroom, Los Angeles. Lewis Eugene Wilson, Architect. Joseph Sheffet, Structural Engineer.

Summerbell Roof Structures

825 East 29th Street, Los Angeles 11, California
Phone ADams 6166

Complete information on Summerbell Products can be obtained from:

SUMMERBELL ROOF STRUCTURES OF NORTHERN CALIFORNIA
1746 13th St., Oakland 7, California

LAING-GARRETT CONSTRUCTION SPECIALTIES, INC.
4700 North Central Ave., Phoenix, Arizona
19 South Tyndall, Tucson, Arizona

THE JAY GREAR CORPORATION
1010 N. First St., Albuquerque, N. M.

LEWERS & COOKE, LTD.
177 South King St., Honolulu 2, Hawaii, U.S.A.

G. H. SLACK & SON
1800 S. Chester Ave., Bakersfield, Calif.